

1641

RAW SEQUENCE LISTING                      DATE: 03/12/2001  
 PATENT APPLICATION: US/09/383,551A      TIME: 11:06:29

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4 <110> APPLICANT: Tamatani, Takuya
5   Tezuka, Katsunari
7 <120> TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
8   ADHESION AND SIGNAL TRANSMISSION
11 <130> FILE REFERENCE: 06501-039001
13 <140> CURRENT APPLICATION NUMBER: US 09/383,551A
14 <141> CURRENT FILING DATE: 1999-08-26
16 <150> PRIOR APPLICATION NUMBER: PCT/JP98/00837
17 <151> PRIOR FILING DATE: 1998-02-27
19 <150> PRIOR APPLICATION NUMBER: JAPAN 09-62290
20 <151> PRIOR FILING DATE: 1997-02-27
22 <150> PRIOR APPLICATION NUMBER: JAPAN 10-62217
23 <151> PRIOR FILING DATE: 1998-02-26
25 <160> NUMBER OF SEQ ID NOS: 23
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41 1 5 10 15
43 gtt tta aca gga gaa atc aat ggt tct gcc aat tat gag atg ttt ata      96
44 Val Leu Thr Gly Glu Ile Asn Gly Ser Ala Asn Tyr Glu Met Phe Ile
45 20 25 30
47 ttt cac aac gga ggt gta caa att tta tgc aaa tat cct gac att gtc      144
48 Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp Ile Val
49 35 40 45
51 cag caa ttt aaa atg cag ttg ctg aaa ggg ggg caa ata ctc tgc gat      192
52 Gln Gln Phe Lys Met Gln Leu Lys Gly Gly Gln Ile Leu Cys Asp
53 50 55 60
55 ctc act aag acg aaa gga agt gga aac aca gtg tcc att aag agt ctg      240
56 Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Ser Leu
57 65 70 75 80
59 aaa ttc tgc cat tct cag tta tcc aac aac agt gtc tct ttt ttt cta      288
60 Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu
61 85 90 95
63 tac aac ttg gac cat tct cat gcc aac tat tac ttc tgc aac cta tca      336
64 Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser
65 100 105 110
67 att ttt gat cct cct cct ttt aaa gta act ctt aca gga gga tat ttg      384
68 Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu
69 115 120 125

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76 Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys Ile Leu
77 145      150      155      160
79 att tgt tgg ctt aca aaa aag aag tat tca tcc agt gtg cac gac cct      528
80 Ile Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Ser Val His Asp Pro
81      165      170      175
83 aac ggt gaa tac atg ttc atg aga gca gtg aac aca gcc aaa aaa tct      576
84 Asn Gly Glu Tyr Met Phe Met Arg Ala Val Asn Thr Ala Lys Lys Ser
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102 Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp Ile Val
103      35      40      45
104 Gln Gln Phe Lys Met Gln Leu Leu Lys Gly Gly Gln Ile Leu Cys Asp
105      50      55      60
106 Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Ser Leu
107 65      70      75      80
108 Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu
109      85      90      95
110 Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser
111      100      105      110
112 Ile Phe Asp Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu
113      115      120      125
114 His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp Leu Pro
115      130      135      140
116 Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys Ile Leu
117 145      150      155      160
118 Ile Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Ser Val His Asp Pro
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137                               1           5
139 ctc ttc tgc ttg cgc att aaa gtt tta aca gga gaa atc aat ggt tct      100
140 Leu Phe Cys Leu Arg Ile Lys Val Leu Thr Gly Glu Ile Asn Gly Ser
141 10           15           20           25
143 gcc aat tat gag atg ttt ata ttt cac aac gga ggt gta caa att tta      148
144 Ala Asn Tyr Glu Met Phe Ile Phe His Asn Gly Gly Val Gln Ile Leu
145           30           35           40
147 tgc aaa tat cct gac att gtc cag caa ttt aaa atg cag ttg ctg aaa      196
148 Cys Lys Tyr Pro Asp Ile Val Gln Gln Phe Lys Met Gln Leu Leu Lys
149           45           50           55
151 ggg ggg caa ata ctc tgc gat ctc act aag aca aaa gga agt gga aac      244
152 Gly Gly Gln Ile Leu Cys Asp Leu Thr Lys Thr Lys Gly Ser Gly Asn
153           60           65           70
155 aca gtg tcc att aag agt ctg aaa ttc tgc cat tct cag tta tcc aac      292
156 Thr Val Ser Ile Lys Ser Leu Lys Phe Cys His Ser Gln Leu Ser Asn
157           75           80           85
159 aac agt gtc tct ttt ttt cta tac aac ttg gac cat tct cat gcc aac      340
160 Asn Ser Val Ser Phe Phe Leu Tyr Asn Leu Asp His Ser His Ala Asn
161 90           95           100           105
163 tat tac ttc tgc aac cta tca att ttt gat cct cct cct ttt aaa gta      388
164 Tyr Tyr Phe Cys Asn Leu Ser Ile Phe Asp Pro Pro Pro Phe Lys Val
165           110           115           120
167 act ctt aca gga gga tat ttg cat att tat gaa tca caa ctt tgt tgc      436
168 Thr Leu Thr Gly Gly Tyr Leu His Ile Tyr Glu Ser Gln Leu Cys Cys
169           125           130           135
171 cag ctg aag ttc tgg tta ccc ata gga tgt gca gcc ttt gtt gta gtc      484
172 Gln Leu Lys Phe Trp Leu Pro Ile Gly Cys Ala Ala Phe Val Val Val
173           140           145           150
175 tgc att ttg gga tgc ata ctt att tgt tgg ctt aca aaa aag aag tat      532
176 Cys Ile Leu Gly Cys Ile Leu Ile Cys Trp Leu Thr Lys Lys Lys Tyr
177           155           160           165
179 tca tcc agt gtg cac gac cct aac ggt gaa tac atg ttc atg aga gca      580
180 Ser Ser Ser Val His Asp Pro Asn Gly Glu Tyr Met Phe Met Arg Ala
181 170           175           180           185
183 gtg aac aca gcc aaa tct aga ctc aca gat gtg acc cta      622
184 Val Asn Thr Ala Lys Lys Ser Arg Leu Thr Asp Val Thr Leu
185           190           195
187 taatatggaa ctctggcacc caggcatgaa gcacgttggc cagttttcct caacttgaag      682
188 tgcaagattc tcttatttcc gggaccacgg agagtctgac ttaactacat acatcttctg      742
189 ctggtgtttt gttcaatctg gaagaatgac tgtatcagtc aatggggatt ttaacagact      802
190 gccttggtac tgccgagtc tctcaaaaca aacacctct tgcaaccagc tttggagaaa      862
191 gccagctcc tgtgtgtca ctgggagtg aatccctgtc tccacatctg ctctaycag      922

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194 actacctctt ctttctgtag qgrtgagaat tcctcttcta atcagtcgag ggagatgctt 1102
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237 Val Phe Val Phe Cys Phe Leu Ile Lys Leu Leu Thr Gly Glu Leu Asn
238 10 15 20
240 gac ttg gcc aat cac agg atg ttt tgc ttt cac gat gga ggt gta cag 151
241 Asp Leu Ala Asn His Arg Met Phe Ser Phe His Asp Gly Gly Val Gln
242 25 30 35
244 att tct tgt aac tac cct gag act gtc cag cag tta aaa atg cag ttg 199
245 Ile Ser Cys Asn Tyr Pro Glu Thr Val Gln Gln Leu Lys Met Gln Leu
246 40 45 50 55

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252 gga aac acc gtg tcc atc aag aat ccg atg tcc tgt cca tat cag ctg      295
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254                               75                               80                               85
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260 ggc agc tac ttt tta tgc agc ctg tgg att ttc gac cca ccc cct ttt      391
261 Gly Ser Tyr Phe Leu Cys Ser Leu Ser Ile Phe Asp Pro Pro Pro Phe
262                               105                              110                              115
264 caa gaa aag aac ctt agt gga gga tat ttg ctt att tat gaa tcc cag      439
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268 ctt tgt tgc cag ctg aag ctt tgg tta ccc gta ggg tgt gca gct ttt      487
269 Leu Cys Cys Gln Leu Lys Leu Trp Leu Pro Val Gly Cys Ala Ala Phe
270                               140                              145                              150
272 gtg gca gcg ctc ctt ttt gga tgc ata ttt atc gtc tgg ttt gca aaa      535
273 Val Ala Ala Leu Leu Phe Gly Cys Ile Phe Ile Val Trp Phe Ala Lys
274                               155                              160                              165
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285 Ser
286 200
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Serial Number: 0383, 55141

ENTERED



Changed a file from non-ASCII to ASCII.



Changed the margins in cases where the sequence text was "wrapped" down to the next line.



Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_.

Added the mandatory heading and subheadings for "Current Application Data".



Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.



Changed the spelling of a mandatory field (the headings or subheadings), specifically:



Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:



Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:



Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.



Inserted colons after headings/subheadings. Headings edited included:



Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_.

Inserted mandatory headings, specifically: \_\_\_\_\_



Corrected an obvious error in the response, specifically:



Edited identifiers where upper case is used but lower case is required, or vice versa.



Corrected an error in the Number of Sequences field, specifically:



A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95